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MAP OF TRANSMISSION AND GENERATING FACILITIES

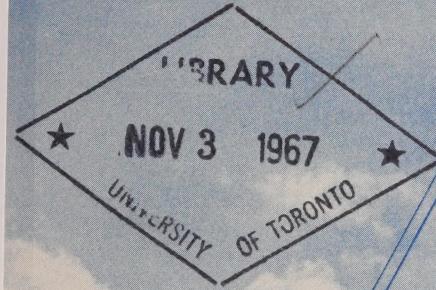
BRITISH COLUMBIA • YUKON  
AND NORTHWEST TERRITORIES

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ELECTRIC POWER IN CANADA

964



CAI MT 51

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MAP OF  
**TRANSMISSION  
AND  
GENERATING  
FACILITIES**

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**British Columbia • Yukon  
and Northwest Territories**

**DEPARTMENT OF NORTHERN AFFAIRS AND  
NATIONAL RESOURCES**

**WATER RESOURCES BRANCH**



MAP OF  
TRANSMISSION  
AND  
GENERATING  
FACILITIES

Highway 200 • Yarwood  
Nipigon Falls • Nipigon

Map prepared by the Ontario Ministry of Transportation  
ROGER DUHAMEL, F.R.S.C.  
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY  
OTTAWA, 1965

Cat. No. R32-865/1

**HYDRO**

HYDRO

No.	Development	River	Owner	Year Installed		Rated Head ft.	No. of Units	Turbines		Generators	
				First Unit	Latest Unit			Unit Capacity hp.	Total Capacity hp.	Unit Capacity kw.	Total Capacity kw.

*British Columbia*

1	Kemano	Nechako to Kemano	ALCAN	1954	1958	2,500	4	150,000 150,000	1,050,000	97,600 105,600	707,200
2	Bridge River No. 2	Bridge to Seton Lake	BCHPA	1959	1960	1,264	4	82,000	328,000	62,000	248,000
3	Waneta	Pend d'Oreille	CMSC	1954	1963	210	1	130,000 120,000	370,000	72,000 72,000	216,000
4	Bridge River No. 1	Bridge to Seton Lake	BCHPA	1948	1954	1,264	4	69,000	276,000	45,000	180,000
5	Cheakamus	Cheakamus to Squamish	BCHPA	1957	1957	954	2	95,000	190,000	70,000	140,000
6	John Hart	Campbell	BCHPA	1947	1953	390	6	28,000	168,000	20,000	120,000
7	Ruskin	Stave	BCHPA	1930	1950	123	3	47,000	141,000	35,200	105,600
8	Brilliant	Kootenay	CMSC	1944	1949	90	3	37,000	111,000	27,200	81,600
9	Wahleach	Wahleach Lake to Fraser	BCHPA	1952	-	1,880	1	82,000	82,000	60,000	60,000
10	Upper Bonnington	Kootenay	CMSC	1907	1940	70	2	8,000 9,000 26,000	86,000	5,062 6,750 15,750	55,124
11	Ladore Falls	Campbell	BCHPA	1956	1957	122	2	35,000	70,000	27,000	54,000
12	Stave Falls	Stave	BCHPA	1912	1925	110 113	4	13,000 15,000	67,000	10,500 10,500	52,500
13	Lake Buntzen No. 1	Lake Buntzen to Burrard Inlet	BCHPA	1951	-	380	1	70,000	70,000	50,000	50,000
14	South Slocan	Kootenay	CMSC	1928	1929	70	3	25,000	75,000	15,750	47,250
15	Lower Bonnington	Kootenay	WKPL	1925	1926	70	3	20,000	60,000	15,750	47,250
16	Seton	Seton Creek	BCHPA	1956	-	147	1	58,500	58,500	42,000	42,000
17	Corra Linn	Kootenay	CMSC	1932	1932	53	3	19,000	57,000	13,500	40,500
18	Stillwater	Lois	MBPR	1930	1948	-	2	25,000	50,000	18,000	36,000
19	Whatshan	Whatshan	BCHPA	1951	1956	690	3	16,500	49,500	11,250	33,750
20	Strathcona	Campbell	BCHPA	1958	-	140	1	42,000	42,000	33,750	33,750
21	Clowhom Falls	Clowhom	BCHPA	1958	-	145	1	40,000	40,000	30,000	30,000
22	Puntledge	Puntledge	BCHPA	1955	-	340	1	35,000	35,000	27,000	27,000
23	Lake Buntzen No. 2	Lake Buntzen to Burrard Inlet	BCHPA	1913	1919	380	3	13,500	40,500	8,900	26,700
24	Jordan River	Jordan	BCHPA	1911	1931	1,010	2	5,430 10,125 18,000	38,985	3,200 8,000 12,000	26,400
25	Ash River	Ash	BCHPA	1959	-	735	1	35,000	35,000	25,200	25,200
26	La Joie	Bridge	BCHPA	1957	-	176	1	30,000	30,000	22,000	22,000
27	Powell River	Powell	MBPR	1911	1926	157 147 147	1	13,500 3,600 3,000	23,100	12,000 3,750 2,800	21,350
28	Ocean Falls	Link	CZC	1917	1932	150	2	2,100 6,300	16,800	1,720 4,200	11,840
29	Elko	Elk	EKPC	1924	1924	190	2	7,500	15,000	4,800	9,600

HYDRO

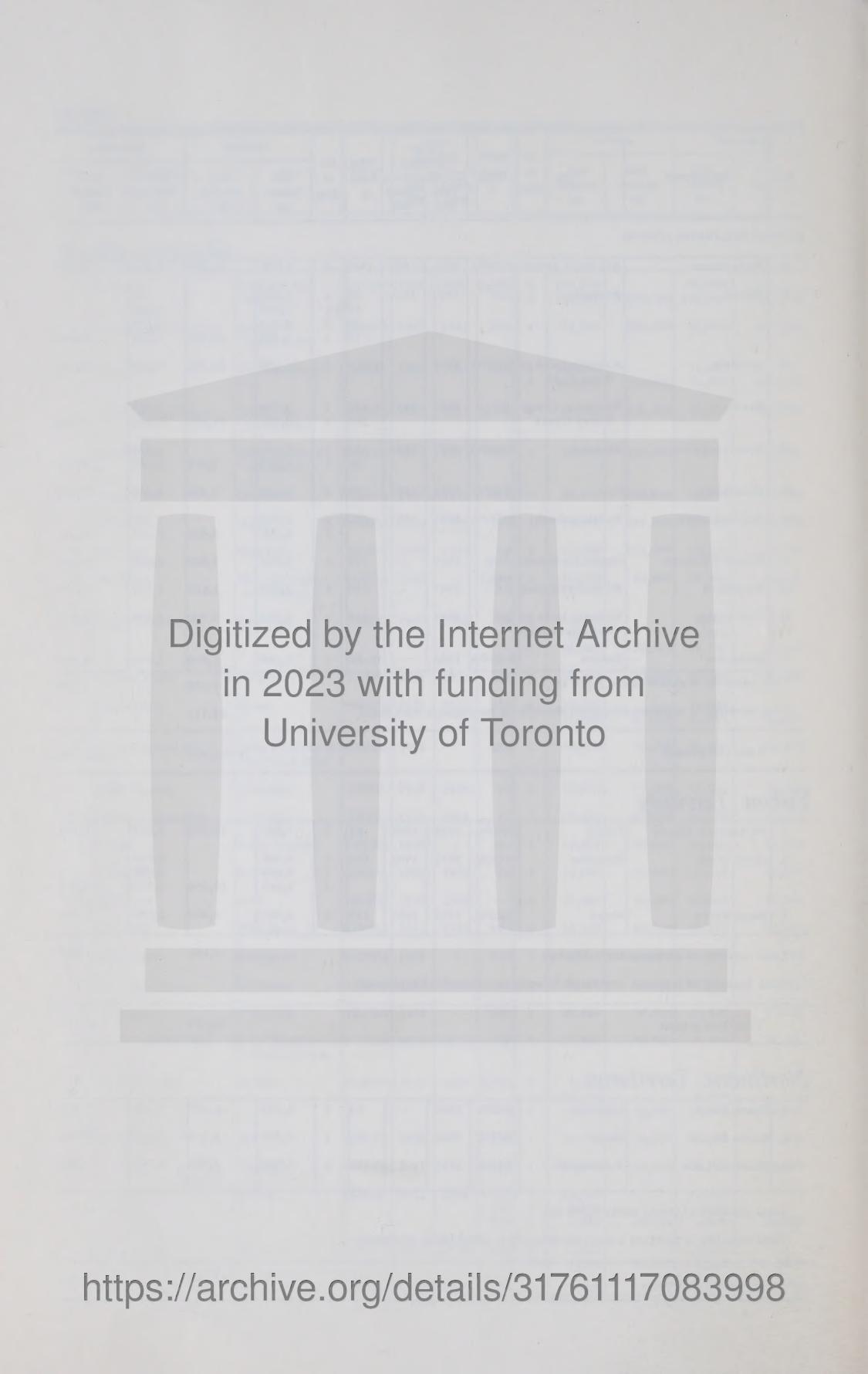
No.	Development	River	Owner	Year Installed		Rated Head ft.	No. of Units	Turbines		Generators	
				First Unit	Latest Unit			Unit Capacity hp.	Total Capacity hp.	Unit Capacity kw.	Total Capacity kw.
<b>BRITISH COLUMBIA (Cont'd)</b>											
30	Falls River	Big Falls Creek	BCHPA	1930	1960	248	2	6,000	12,000	4,800	9,600
31	Nelson	Kootenay	CN	1907	1950	60 60 70 70	1 1 1 1	1,670 1,900 3,000 6,750		750 1,000 2,120 4,800	
32	Alouette	Alouette Lake to Stave Lake	BCHPA	1928	-	125.5	1	12,500	12,500	8,000	8,000
33	Beach	Britannia Creek Furry Creek	ACL	1916	1917	1,835 760	2 1	3,750 3,750	11,250	2,000 2,000	6,000
34	Shuswap Falls	Shuswap	BCHPA	1929	1942	72 82	1 1	3,800 4,000	7,800	2,400 2,800	5,200
35	Aberfeldie	Bull	EKPC	1922	1922	275	2	3,650	7,300	2,500	5,000
36	Spillimacheen	Spillimacheen	BCHPA	1955	1955	207	2	1,200 3,000		956 2,200	4,112
37	Walter Hardman	Cranberry Creek	COR	1960	-	770	1	5,800	5,800	4,000	4,000
38	Woodfibre	Woodfibre Creek	RC	1947	-	920	1	3,650	3,650	2,250	2,250
39	Port Alice	Victoria Lake to Neroutsos Inlet	RC	1953	-	425	1	3,200	3,200	2,000	2,000
40	Diversion	Jordan	BCHPA	1928	-	45-82	1	2,250	2,250	1,500	1,500
Total capacity of plants under 1,500 kw.										9,208	5,787
Total capacity of turbines connected directly to mechanical equipment										41,710	
Total (all plants)										3,810,773	2,612,733

### *Yukon Territory*

1	Whitehorse Rapids	Yukon	NCPC	1958	1958	61	2	7,500	15,000	5,695	11,390
2	North Fork	Klondike	YCGC	1911	1935	220	1 1 1	5,000 5,000 5,000		3,600 2,700 3,750	10,050
3	Mayo River	Mayo	NCPC	1952	1957	110	2	3,000	6,000	2,550	5,100
Total capacity of plants under 1,500 kw.										2,140	1,650
Total capacity of turbines connected directly to mechanical equipment										-	
Total (all plants)										38,140	28,190

### *Northwest Territories*

1	Snare Falls	Snare	NCPC	1960	-	63	1	9,200	9,200	7,000	7,000
2	Snare Rapids	Snare	NCPC	1948	-	56	1	8,350	8,350	7,000	7,000
3	Bluefish Lake	Yellowknife	CMSC	1941	-	110	1	4,700	4,700	3,360	3,360
Total capacity of plants under 1,500 kw.										-	-
Total capacity of turbines connected directly to mechanical equipment										-	
Total (all plants)										22,250	17,360



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**THERMAL**

## THERMAL

No.	Station	Location	Owner	Year Installed		Fuel	Type of Prime Mover	Generators		
				First Unit	Latest Unit			No.	Unit Capacity kw.	Total Capacity kw.
<i>British Columbia</i>										
1	Burrard	Vancouver	BCHPA	1962	1963	Gas, oil	S	2	150,000	300,000
2	Port Mann	New Westminster	BCHPA	1959	1959	Oil	GT	4	27,000	108,000
3	Georgia	Chemainus	BCHPA	1958	1959	Oil	GT	4	21,760	87,040
4	Harmac	Nanaimo	MB PR	1954	1963	Oil, wood-waste	S	1 1 1	31,500 4,000 1,250	36,750
5	Prince George	Prince George	BCHPA	1957	1963	Gas, oil	GT IC	1 7 2	6,000 3,000 1,000	29,000
6	Somass Mill	Port Alberni	MB PR	1963	-	Wood-waste	S	1	26,000	26,000
7	Dawson Creek	Dawson Creek	BCHPA	1953	1963	Gas, oil	IC	2 6	1,000 3,000	20,000
8	Powell River	Powell River	MB PR	1948	1960	Wood-waste, oil	S	1 1 1 1	1,500 1,200 12,500 3,000	18,200
9	Port Alice	Port Alice	RC	1942	1957	Oil, wood-waste	S	1 2 1	3,200 3,500 6,000	16,200
10	Watson Island	Watson Island	CCC	1950	1950	Oil, wood-waste	S	2	7,500	15,000
11	Ocean Falls	Ocean Falls	CZC	1930	1950	Oil, wood-waste	S	1 1 1 1	3,000 2,500 4,000 5,000	14,500
12	New Westminster	New Westminster	CZB	1912	1950	Wood-waste	S	1 1 1	5,000 1,500 6,000	12,500
13	Eburne Sawmills	Vancouver	CFP	1960	1960	Wood-waste	S	2	5,000	10,000
14	Quesnel	Quesnel	BCHPA	1957	1961	Gas, oil	IC	3	3,000	9,000
15	Chetwynd	Chetwynd	BCHPA	1958	1963	Gas, oil	IC	2 2 2	3,000 900 600	9,000
16	Dry Dock	Prince Rupert	BCHPA	1950	1963	Oil	IC	3 1 1 2	710 2,000 2,034 1,000	8,164
17	Kitimat	Kitimat	ALCAN	1954	1959	Oil	IC	8	1,000	8,000
18	Taylor	Taylor	PP	1957	1957	Gas	S	3	2,500	7,500
19	Kelowna	Kelowna	SMS	1950	1963	Wood-waste, oil, coal	S	1 1 1 1	750 2,000 3,500 1,000	7,250
20	Woodfibre	Woodfibre	RC	1948	1961	Oil, wood-waste	S	2 1	2,000 3,000	7,000
21	Port Mellon	Port Mellon	CFP	1928	1947	Oil	S	1 1 1	500 1,500 3,000	5,000

## THERMAL

No.	Station	Location	Owner	Year Installed		Fuel	Type of Prime Mover	Generators		
				First Unit	Latest Unit			No.	Unit Capacity kw.	Total Capacity kw.
<b>BRITISH COLUMBIA (Cont'd)</b>										
22	Vancouver	Vancouver	MBPR	1949	1956	Wood-waste	S	1 1	750 4,000	4,750
23	Kimberley (Stand-by)	Kimberley	CMSC	1927	1928	Coal	S	3	1,500	4,500
24	Kamloops	Kamloops	BCHPA	1953	1953	Gas, oil	IC	2 1	1,000 2,500	4,500
25	Victoria	Victoria	BCFP	1940	1950	Wood-waste, oil	S	1 1	3,000 1,500	4,500
26	Youbou	Youbou	BCFP	1929	1958	Wood-waste	S	1 2 1	800 750 2,000	4,300
27	Terrace	Terrace	BCHPA	1952	1958	Oil	IC	2 3	600 1,000	4,200
28	Hammond	Hammond	BCFP	1928	1929	Wood-waste	S	2	2,000	4,000
29	Smithers	Smithers	BCHPA	1951	1959	Oil	IC	2 1 2	560 760 1,000	3,880
30	Chemainus	Chemainus	MBPR	1925	1950	Wood-waste, oil	S	1 1	3,000 750	3,750
31	Vancouver	Vancouver	BCSRC	1947	1960	Gas, oil	S	3	1,250	3,750
32	Burns Lake	Burns Lake	BCHPA	1954	1960	Oil	IC	1 4 1	800 250 1,136	2,936
33	Mesachie Lake	Mesachie Lake	HLC	1943	1949	Wood-waste	S	1 1 1	1,600 750 260	2,610
34	Fort Nelson	Fort Nelson	BCHPA	1960	1960	Oil, gas	IC	1 1 1 1 1	1,200 600 300 150 100	2,350
35	Revelstoke	Revelstoke	COR	1926	1954	Oil	IC	2 1 1	300 400 1,000	2,000
36	Wells	Wells	CGQM	1936	1955	Oil	IC	1 2 1 2 2	350 300 125 250 150	1,875
37	Giscome	Giscome	ELS	1951	1956	Wood-waste, oil	S IC	1 1	1,500 300	1,800
38	Port Hardy	Port Hardy	BCHPA	1959	1963	Oil	IC	1 1 2	600 500 300	1,700
39	Vanderhoof	Vanderhoof	BCHPA	1953	1955	Oil	IC	1 1	600 1,000	1,600

Total capacity of plants 1,500 kw. and over (not listed above)

7,500

Total capacity of plants under 1,500 kw.

24,734

Total (all plants)

845,339

## THERMAL

No.	Station	Location	Owner	Year Installed		Fuel	Type of Prime Mover	Generators		
				First Unit	Latest Unit			No.	Unit Capacity kw.	Total Capacity kw.
<i>Northwest Territories</i>										
1	Port Radium	Port Radium	EMR	1936	1953	Oil	IC	2	150	
								1	864	
								2	650	
								2	400	
								1	175	
								1	200	3,639
2	Frobisher Bay	Frobisher Bay	NCPC	1963	1963	Oil	IC	2	1,000	
							GT	1	1,500	3,500
3	Inuvik	Inuvik	NCPC	1957	1963	Oil	IC	2	375	
								1	150	
								1	960	
								1	1,000	
4	Fort Smith	Fort Smith	NCPC	1955	1962	Oil	IC	1	600	3,460
								1	280	
								1	600	
								1	1,000	
								1	400	2,280
5	Hay River	Hay River	NU							1,725
6	Flat River	Flat River	CTMC	1962			IC	3	500	
								1	100	1,600
Total capacity of plants 1,500 kw. and over (not listed above)										
Total capacity of plants under 1,500 kw.										
Total (all plants)										

## Yukon Territory

Total capacity of plants 1,500 kw. and over	-
Total capacity of plants under 1,500 kw.	4,320
Total (all plants)	4,320

GT - Gas Turbine, IC - Internal Combustion, S - Steam

## **OWNER CODE INDEX**

CODE	OWNER
ACL.....	Anaconda Company (Canada) Limited
ALCAN.....	Aluminum Company of Canada Limited
BCFP.....	British Columbia Forest Products Limited
BCHPA.....	British Columbia Hydro and Power Authority
BCSRC.....	British Columbia Sugar Refining Company Limited
CCC.....	Columbia Cellulose Company Limited
CFP.....	Canadian Forest Products Limited
CGQM.....	Cariboo Gold Quartz Mining Company Limited
CMSC.....	Consolidated Mining and Smelting Co. of Canada Ltd.
CN.....	City of Nelson
COR.....	City of Revelstoke
CTMC.....	Canada Tungsten Mining Corporation Limited
CZB.....	Crown Zellerbach Building Materials Limited
CZC.....	Crown Zellerbach Canada Limited
EKPC.....	East Kootenay Power Company Limited
ELS.....	Eagle Lake Sawmills Company Limited
EMR.....	Eldorado Mining and Refining Limited
HLC.....	Hillcrest Lumber Company Limited
MBPR.....	MacMillan Bloedel and Powell River Limited
NCPC.....	Northern Canada Power Commission
PP.....	Pacific Petroleum Company Limited
RC.....	Rayonier Canada (BC) Limited
SMS.....	S. M. Simpson Limited
WKPL.....	West Kootenay Power and Light Company Limited
YCGC.....	Yukon Consolidated Gold Corporation



